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A preliminary list of Braconidae (Hymenoptera) of Taiwan[1]

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Abstract : A preliminary list and host index of Braconidae of Taiwan are prepared. It includes 14 subfamilies, 66 genera and 140 species in total. Four species, *Agathis festiva* Muesebeck, *Apanteles hemitheae* Wilkinson, *A. hyposidrae* Wilkinson and *Snellenius radicalis* (Wilkinson) are new to Taiwan. *Chelonus formosanus* Sonan and *Snellenius manilae* (Ashmead) are newly recorded parasitoids of *Spodoptera exigua* (Hbn.) in Taiwan. *Trichoplusia ni* (Hbn.) and *Homona coffearia* Niet. are newly recorded hosts of *Apanteles hemitheae* Wilkinson and *A. hyposidrae* Wilkinson, respectively, in Taiwan.

Braconidae is a large and important group of mostly primary parasitoids of other insects. It contains about 11,000 known species in the world [45,83-92] however, the total number of species is estimated to be 40,000 worldwide [58]. This paper includes 14 subfamilies, 66 genera and 140 species of Braconidae of Taiwan, of which 4 species, *Agathis festiva* Muesebeck, *Apanteles hemitheae* Wilkinson, *A. hyposidrae* Wilkinson and *Snellenius radicalis* (Wilkinson) are new to Taiwan. Three species e.g. *Chelonus munakatae* Matsumura [88], *Chelonogastra koebelei* Ashmead [91] and *Rhaconotus schoenobivorus* (Rohwer) [92] were recorded in "Hymenopterorum catalogus", I belive it is a mistake. Moreover, Liu reported *Microgaster russatus* Haliday (=*Microplitis aomoriensis* Matsumura) as a parasitoid of *Spodoptera litura* (Fabr.) [62], it is also a wrong record. *Chelonus formosanus* Sonan and *Snellenius manilae* (Ashmead) are newly recorded parasitoids of *Spodoptera exigua* (Hbn.) in Taiwan. *Trichoplusia ni* (Hbn.) and *Homona coffearia* Niet. are newly recorded hosts of *Apanteles hemitheae* Wilkinson and *A. hyposidrae* Wilkinson, respectively, in Taiwan. The present paper reported only the place of original description, synonyms and host insects under each species. The subfamilies are listed essentially in phylogenetic order from the least specialized to the most specialized. Within each subfamily, all genera are arranged in alphabetical order as well as the species within each genus. Only the hosts pertaining to Taiwan is mentioned.

Shenefelt have published a series of a catalog of Braconidae of the world, but he

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did not indicate the location of Sonan's type specimens from Taiwan. Therefore, the auther would like to indicate the Sonan's types, *Apanteles gracilariae*, *A. heichinensis*, *A. posticae*, *A. taiwanensis*, *A. theae*, *Ascogaster arisanicus*, *A. formosensis*, *Chelonella mushana*, *C. nitobei*, *C. rigricoxata*, *C. rokkina*, *C. rufosignata*, *C. yamii*, *Chelonus arisanus*, *C. formosanus*, *C. gohoi*, *C. signatus*, *C. tabonus*, *Meteorus narangae*, *Opius arisanus*, *O. makii*, *Phanerotoma bicolor* and *P. taiwana* are deposited in the collection of the Taiwan Agricultural Research Institute (TARI), Taichung, Taiwan, Republic of China.

The auther wishes to express his cordial thanks to Miss S. C. Chiu, Head of the Department of Applied Zoology, TARI and Mr. K. S. Lin, Entomologist of the same department in various ways of advices, without their helps the list could not be completed.

Subfamily DORYCTINAE

Genus **Eucorystoides** Ashmead

formosanus (Watanabe) 1934b : 191 (*Eucorystes*).

Genus **Leptospathius** Szépligeti

triangulifera Enderlein 1914 : 33.

Genus **Platyspathius** Viereck

bisignatus (Walker) 1860 : 309 (*Spathius*).

ornatulus (Enderlein) 1912a : 21 (*Spathiohormius*).

sauteri (Watanabe) 1934b : 189 (*Spathiohormius*).

Genus **Rhaconotus** Ruthe

formosanus Watanabe 1934a : 119.

sulcativentris (Enderlein) 1912a : 24 (*Hormiopterus*).

Genus **Spathius** Nees von Esenbeck

annuliventris (Enderlein) 1912a : 11 (*Stenophasmus*) ; *Stenophasmus mimeticus* Enderlein 1912a : 12.

apicalis (Westwood) 1882 : 43 (*Stenophasmus*).

enderleini (Strand) 1913 : 212 (*Stenophasmus*).

miletus Nixon 1943 : 317.

Genus **Zombrus** Marshall

bicolor (Enderlein) 1912a : 29 (*Neotrimorus*).

Host : *Chlorophorus annularis* Fab. [102].

Subfamily BRACONINAE

Genus **Aphrastobracon** Ashmead

philippinensis Baker 1917 : 213.

Genus **Bracon** Fabricius

adoxophyesi Minamikawa 1954 : 39.

Host : *Adoxophyes privatana* Wlk [29].

chinensis Szépligeti 1902 : 39 ; *B. albolineatus* Cameron 1910b : 278 ; *Amyosoma chilonis* Viereck 1913 : 640 ; *Agathis noiratum* Ishida 1915 : 100 ; *Microbracon chilocida* Ayyar 1928 : 49.

Hosts : *Chilo suppressalis* (Wlk.), *C. infuscatellus* Snel., *C. venosatus* (Wlk.), *Schoenobius*

bipunctifer (Wlk.), *Sesamia inferens* Wlk. [102].

hebetor Say 1836 : 252 ; *B. dorsator* Say 1836 : 253 ; *B. juglandis* Ashmead 1889 : 621 ; *Habrobracon brunnea* Szépligeti 1901 : 181 ; *H. vernalis* Szépligeti 1901 : 182 ; *H. beneficientor* Viereck 1911 : 182 ; *H. plotnicovi* Bogolijubov 1914 : 280 ; *Bracon breviantennatus* de Stefani Pérez 1919 : 44 ; *Habrobracon pectinophorae* Watanabe 1935 : 44 ; *H. turkestanicus* Telenga 1936 : 131 ; *H. flavus* Telenga 1936 : 134.

Hosts : *Corcyra cephalonica* Stain., *Ephestia cautella* Wlk. [24,102].

hispae (Viereck) 1913 : 642 (*Microbracon*).

Host : *Dicladispa armigera* (Uhm.) [113].

koshunensis Watanabe 1934b : 186 ; *Eutropobracon indicus* Ayyar 1928 : 40

kuro Watanabe 1934b : 185.

sp. Watanabe 1965 : 178.

Genus **Campyloneurus** Szépligeti

cingulicauda Enderlein 1920 : 105.

cingulicauda var. **watanabei** Fahringer 1942 : 41.

Genus **Chelonogastra** Ashmead

formosana Watanabe 1937b : 17 (form of *koebelei*).

peruliventris (Enderlein) 1920 : 110 (*Ectemnoplax*).

Genus **Euurobracon** Ashmead

yokahamae (Dalla Torre) 1898 : 295 (*Bracon*) ; *Bracon penetrator* Smith 1877 : 413.

Host : *Batocera lineolata* Chev.

Genus **Iphiaulax** Förster

garampiana Matsumura 1912 : 156 (*Glyptomorpha*).

sauteri Enderlein 1920 : 128.

Genus **Ipobracon** Thomson

horishana (Matsumura) 1912 : 152 (*Iphiaulax*).

taiwanus (Watanabe) 1934b : 183 (*Merinotus*).

Genus **Philomacroploea** Cameron

pleuralis (Ashmead) 1906 : 196 (*Chelonogastra*).

Genus **Stenobracon** Szépligeti

nicevillei (Bingham)1901 : 555(*Bracon*) ; *S. trifasciatus* Szépligeti 1908 : 214 ; *S. maculata* Matsumura 1910 : 50 ; *Macrocentrus javanicus* Ishida 1915 : 109 ; *Hemibracon elegantulus* Enderlein 1920 : 62.

Hosts : *Chilo infuscatellus* Snel., *C. suppressalis* (Wlk.), *C. venosatus* (Wlk.), *Schoenobius bipunctifer* (Wlk.), *Scirpophaga nivella* Fab. [102].

Genus **Syntomernus** Enderlein

pusillus Enderlein 1920 : 121.

Genus **Tropobracon** Cameron

schoenobii (Viereck) 1913 : 643 (*Shirakia*) ; *Bracon dosalis* Matsumura 1910 : 49 ; *Tropobracon luteus* var. *indica* Ayyar 1928 : 39.

Hosts : *Chilo suppressalis* (Wlk.), *Schoenobius bipunctifer* (Wlk.), *Sesamia inferens* Wlk. [125].

yokohamensis (Cameron) 1910b : 278 (*Bracon*) ; *Bracon seitzi* Cameron 1910b : 278.

Host : *Scirpophaga nivella* Fab. [122].

Subfamily EXOTHECINAE

Genus **Chremylus** Haliday

concinnus Enderlein 1912a : 23.

Genus **Hormiellus** Enderlein

solocipes Enderlein 1912a : 20.

Subfamily ROGADINAE

Genus **Aleiodes** Wesmael

dendrolimi (Matsumura) 1925 : 41 (*Phanomeris*) ; *Phanomeris spectabilis* Matsumura 1926 : 33 ; *Rhogas metanastriae* Rohwer 1934 : 47.

Host *Dendrolimus punctatus* Wlk. [80].

Genus **Chelonorhogas** Enderlein

rufithorax Enderlein 1912b : 258.

Genus **Coeloreuteus** Roman

formosanus Watanabe 1934b : 188.

Genus **Conspinaria** Schulz

flavum (Enderlein) 1920 : 144 (*Gyroneuron*).

Genus **Cystomastax** Szépligeti

perinae (Watanabe) 1932b : 184 (*Megarhogas*).

Host : *Perina nuda* Fab. [117].

Genus **Dedanima** Cameron

formosana (Watanabe) 1932b : 186 (*Cystomastax*).

Genus **Gyroneuron** Kokoujev

mirum Kokoujev 1901 : 232.

testaceator Watanabe 1934b : 193.

Genus **Macrostomion** Szépligeti

sumatranum (Enderlein) 1920 : 147 (*Pelecystoma*).

Genus **Rogas** Nees von Esenbeck

cariniventris Enderlein 1912b : 257.

lateralis Baker 1917 : 391.

narangae Rohwer 1934 : 47.

Host : *Naranga aenescens* Moore [80].

Genus **Spinaria** Brulle

armator (Fabricius) 1804 : 107 (*Bracon*) ; *Ichneumon furcator* Thunberg 1822 : 261.

Host : *Parasa consocia* Moore [102].

spinator (Guérin-Méneville) 1830 : 199 (*Spinaria*).

Subfamily XIPHOZELINAE

Genus **Xiphozele** Cameron

compressiventris Cameron 1906a : 205 ; *Cerotopia corneimacula* Enderlein 1920 : 220.

Subfamily HELCONINAE

Genus **Cenocoelius** Haliday

eous Wilkinson 1932a : 86.

koshuensis Watanabe 1934b : 203.

Subfamily MACROCENTRINAE

Genus **Macrocentrus** Curtis

gigas Watanabe 1937b : 158.

jacobsoni Szépligeti 1908 : 230.

Hosts : *Chilo infuscatellus* Snel., *C. venosatus* (Wlk.), *Scirpophaga nivella* Fab. (122).

philippinensis Ashmead 1904b : 145 ; *M. japonicus* Watanabe 1932a : 133.

Host : *Diaphania pyloalis* (Wlk.) (125)

sp. Watanabe 1967b : 6 (Misident. as *M. marginator* Nees von Esenbeck) : Watanabe 1937b : 157).

sp. Chiu, Chou & Wu 1978 : 63.

Host : *Brachmia macroscopa* Meyr. (127).

Subfamily AGATHIDINAE

Genus **Agathis** Latreille

albifasciata (Watanabe) 1934b : 201 (*Microdus*).

cancellata (Enderlein) 1920 : 201 (*Microdus*) ; *Microdus sauteri* Watanabe 1934b : 200.

festiva Muesebeck 1953 : 149.

This species is new to Taiwan

Specimens examined : Chiayi : Chuchi, 1♀, 1♂, 19. I. 1979, & 1♀, 6. VI. 1979 (L. Y. Chou).

formosana (Watanabe) 1934b : 202 (*Microdus*).

rudimentaria (Enderlein) 1920 : 202 (*Microdus*).

Genus **Cremnops** Förster

atricornis (Smith) 1874 : 398 (*Agathis*) ; *Cremnops alternans* Enderlein 1920 : 185.

Genus **Disophrys** Förster

concolor Szépligeti 1908 : 229.

Genus **Euagathis** Szépligeti

semiflava Szépligeti 1908 : 228 ; . *E. tricarinata* Enderlein 1920 : 178 ; *E. formosana* Enderlein 1920 : 178 ; *E. formosana* var. *obscurior* Enderlein 1920 : 179 ; *E. horniana* Enderlein 1920 : 180 ; *E. nigrifrons* Enderlein 1920 : 180.

Genus **Laccagathis** Watanabe

formosana Watanabe 1934a : 121.

Genus **Zelomorpha** Ashmead

erythrocephala (Cameron) 1900 : 91 (*Disophrys*).

Subfamily OPIINAE

Genus **Biosteres** Förster

longicaudatus Ashmead 1905 : 970 ; *Opius dacusii* Cameron 1906b : 210 ; *Biosteres formosanus* Fullaway 1926 : 283.

Hosts : *Dacus synnephes* Hen., *D. dorsalis* Hen. (97).

oophilus (Fullaway) 1951 : 248 (*Opius*).

Host : *Dacus dorsalis* Hen. (30).

taiwanicus Fischer 1975 : 47.

vandenboschi (Fullaway) 1952 : 413 (*Opius*) ; *Biosteres javanus* Fullaway 1920 : 260.

Host : *Dacus dorsalis* Hen. [30].

Genus **Diachasma** Förster

arisanum (Sonan) 1932 : 67 (*Opius*).

Hosts : *Dacus dorsalis* Hen., *D. latifrons* Hen. [102].

Genus **Opius** Wesmael

fletcheri Silvestri 1916 : 163.

Hosts : *Dacus cucurbitae* Coq., *D. nubilus* Hen. [97].

fulvifacies Fischer 1966 : 45.

maculipennis Enderlein 1912b : 262.

makii Sonan 1932 : 68.

Host : *Dacus dorsalis* Hen. [97].

sauteri Fischer 1963 : 211.

sp. Watanabe 1965 : 178.

sulcifer Fischer 1975 : 50.

Genus **Orientopius** Fischer

formosanus Fischer 1966 : 150.

Subfamily ALYSIINAE

Genus **Alysia** Latreille

sp. Lin, Ni & Chia 1977 : 237.

Host : *Bradysia tritici* Coq. [61].

Genus **Asobara** Förster

aurea Papp 1967 : 145 (*Phaenocarpa*).

sp. Lin, Ni & Chai 1977 : 237.

Host : *Bradysia tritici* Coq. [61].

Genus **Aspilota** Förster

sp. Lin, Ni & Chai 1977 : 237.

Host : *Bradysia tritici* Coq. [61].

Genus **Conalysia** Papp

laticeps Papp 1969 : 150.

Genus **Heratemis** Walker

filosa Walker 1860 : 310.

Genus **Phaenocarpa** Förster

cameroni Papp 1967 : 146 ; *Pentapleura flavipes* Cameron 1910a : 8.

formosae Ashmead 1906 : 186.

Genus **Synaldis** Förster

sp. Lin, Ni & Chai 1977 : 237.

Host : *Bradysia tritici* Coq. [61].

Subfamily CHELONINAE

Genus **Ascogaster** Wesmael

formosensis Sonan 1932 : 78.

rufipes (Latreille) 1809 : 14 (*Sigalphus*) ; *Sigalphus elegans* Nees von Esenbeck 1816 : 264 ; *Chelonus fusciatus* Dahlbom 1833 : 163 ; *C. pallipes* Herrich-Schäffer 1838 : 154 ; *C.* (*Ascogaster*)

multiarticulatus Ratzeburg 1852 : 25 ; *Ascogaster arisanicus* Sonan 1932 : 79.

Genus **Chelonus** Jurine

arisanus Sonan 1932 : 71.

formosanus Sonan 1932 : 70.

Hosts : *Leucania loreyi* Dup. [102], *Spodoptera exigua* (Hbn.) (New host recorded in Taiwan), *S. litura* (Fab.) [102].

gohoi Sonan 1932 : 73.

signatus Sonan 1932 : 72.

tabonus Sonan 1932 : 71 ; *Chelonella yami* Sonan 1932 : 74 ; *Chelonus inanitus* Watanabe 1933 : 247. sp. Chiu, Chou & Wu 1978 : 63.

Host : *Brachmia macroscopa* Meyr. [27].

Genus **Microchelonus** Szépligeti

mushana (Sonan) 1932 : 75 (*Chelonella*).

nigricoxata (Sonan) 1932 : 77 (*Chelonella*).

pectinophorae (Cushman) 1931 : 11 (*Chelonus*) ; *Chelonella nitobei* Sonan 1932 : 74.

Host : *Argyroploce schistaceana* Snel. [97].

rokkina (Sonan) 1932 : 76 (*Chelonella*).

rufosignata (Sonan) 1932 : 77 (*Chelonella*).

Genus **Phanerotoma** Wesmael

flava Ashmead 1906 : 191 ; *P. taiwana* Sonan 1932 : 81.

Host : *Locastra muscosalis* Wlk. [102].

planifrons (Nees von Esenbeck) 1816 : 259 (*Sigalphus*) ; *Chelonus diversus* Walker 1874 : 308 ; *Phanerotoma flavida* Enderlein 1912b : 259 ; *P. flavida* ab. *brevisecta* Enderlein 1912b : 260 ; *P. bicolor* Sonan 1932 : 81 ; *P. formosana* Rohwer 1934 : 45.

Hosts : *Diaphania pyloalis* Wlk., *D. indica* Saund., *Sylepta derogata* Fab. [102].

Subfamily MICROGASTERINAE

Genus **Apanteles** Förster

aristaeus Nixon 1965 : 95.

Host : *Cydia leucostoma* Meyr. [28].

asotae Watanabe 1932c : 98.

Host : *Asota complana* Wlk. [118].

bakeri Wilkinson 1932b : 143.

baoris Wilkinson 1930 : 280.

Host : *Parnara guttata guttata* Bremer & Grey. [28].

bisulcata Cameron 1909 : 43.

Hosts : *Ochyrotica concursa* (Wlsm.), *Pterophorus niveodactylus* (Pgst.) [27].

carpatus (Say) 1836 : 263 (*Microgaster*) ; *Protapanteles hawaiiensis* Ashmead 1901 : 362 ; *Urogaster fuscicornis* Cameron 1910c : 449 ; *Apanteles igae* Watanabe 1932c : 97.

Host : *Tinea pellionella* L. [28].

cypris Nixon 1965 : 47.

Host : *Cnaphalocrocis medinalis* Guen. [28].

flavipes (Cameron) 1891 : 185 (*Cotesia*) ; *A. nonagriae* Olliff 1893 : 326 ; *A.* (*Stenopleura*) *nonagriae* Viereck 1913 : 645 ; *A.* (*Stenopleura*) *simplicis* Viereck 1913 : 645 ; *A. flavatus* Ishida 1915 : 97.

Hosts : *Argyroploce schistaceana* (Snel.), *Chilo suppressalis* (Wlk.), *C. infuscatellus* Snel., *C.*

venosatus (Wlk.), *Leucania loreyi* Dup., *Schoenobius bipunctifer* (Wlk.), *Sesamia inferens* (Wlk.) [102].

galleriae Wilkinson 1932b : 139.

Hosts : *Achroia grisella* Fab., *Galleria mellonella* (L.) [28].

heichinensis Sonan 1942b : 245.

Host : *Homona coffearia* Niet. [100].

hemitheae Wilkinson 1928a : 124.

This species is new to Taiwan.

Specimens examined : Chiayi : Minhsiung, 1♀. 8, VII. 1977 (L. Y. Chou) on sweet potato. Pingtung, 2♀, 10. IV. 1941 ; & 1♀ 4. I. 1944, ex *Trichoplusia ni* (Hbn.) (J. Sonan). Taitung, 7♀, 8♂, 30. XI. 1943 (S. Akasaka).

Host : *Trichoplusia ni* (Hbn.).

heterusiae Wilkinson 1928 : 127.

Host : *Histia rhodope* Cram. [118].

hyposidrae Wilkinson 1928a : 125.

This species is new to Taiwan.

Specimens examined : Taoyuan : Kweishan, 6♀, 4♂, 7. XI. 1977 (C. C. Hu) ; Miaoli : Toufen, 1♀, VI. 1976 (H. T. Chen). All reared from *Homona coffearia* Niet. on tea.

Host : *Homona coffearia* Niet.

kariyai Watanabe 1937a : 41.

Host : *Naranga aenescens* Moore [28].

lacteicolor Viereck 1911b : 475 ; *A. conspersae* Fiske *in* Howard & Fiske 1911 : 285.

Host : *Euproctis pseudoconspersa* Str. [96].

lamborni Wilkinson 1928 : 90.

Host : *Histia rhodope* Cram. [118].

liparidis (Bouché) 1834 : 152 (*Microgaster*) ; *Microgaster nemorum* Hartig 1838 : 252, *Glyptapanteles politus* Ashmead 1906 : 192 ; *G. japonicus* Ashmead 1906 : 193 ; *Apanteles fulvipes* Howard & Fiske 1911 : 57 ; *A. posticae* Sonan 1927 : 111 ; *A. awanomeigae* Watanabe 1942 : 148.

Hosts : *Orgyia postica* (Wlk.), *Euproctis taiwana* (Shir.) [102].

mamitus Nixon 1965 : 45.

Host : *Hymenia recurvalis* Fab. [28].

minor (Ashmead) 1906 : 192 (*Glyptapanteles*).

Host : *Diaphania pyloalis* (Wlk.) [126].

plutellae Kurdjumov 1912 : 226.

Hosts : *Corcyra cephalonica* Stain., *Ephestia cautella* Wlk., *Plutella xylostella* (L.), *Spodoptera litura* (Fab.) [25,26].

ruficrus (Haliday) 1834 : 253 (*Microgaster*) ; *A. antipoda* Ashmead 1900 : 355 ; *A. manilae* Ashmead 1904a ; 19 ; *A. sydneyensis* Cameron 1911 : 342 ; *A.* (*Protapanteles*) *narangae* Viereck 1913 : 642.

Hosts : *Spodoptera exigua* (Hbn.), *S. litura* (Fab.), *Naranga aenescens* Moore, *Trichoplusia ni* (Hbn.) [28].

sonani Watanabe 1932c : 96.

Host : *Chalcosia argentata* Moore [118].

spp. Chiu, Chou & Wu 1978 : 62-63.

Hosts : *Agrius convolvuli* (L.), *Amsacta lactinea* Cram., *Bedellia ferenodes* Meyr., *Brachmia macroscopa* Meyr., *Pterophorus niveodactylus* (Pgst.), *Trichoplusia ni* (Hbn.) [27].

taiwanensis Sonan 1942b : 246.

Host : *Euproctis taiwana* (Shir.) [100].

taprobanae Cameron 1897 : 38 ; *A.* (*Protapanteles*) *stauropi* Viereck 1912 : 146 ; *A.* (*Protapanteles*) *formosae* Viereck 1913 : 642.

Host : *Stauropus alternus* Wlk. [102].

taragamae Viereck 1912 : 140.

Host : *Diaphania indica* Saund. [28].

theae Sonan 1942a : 218.

Host : *Homona coffearia* Niet. [99]

theivorae Shenefelt 1972 : 651 ; *A. gracilariae* Sonan 1942a : 127.

Host : *Gracilaria theivora* Wlsm. [99].

Genus **Cardiochiles** Nees von Esenbeck

albopilosus Szépligeti 1902 : 78.

laevifossa Enderlein 1906 : 248.

Host : *Cnaphalocrocis medinalis* Guen. [23].

szepligeti Enderlein 1906 : 252 ; *C. testaceus* Szépligeti 1902 : 77.

Genus **Fornicia** Brullé

arata (Enderlein) 1912b : 261 (*Odontofornicia*).

ceylonica Wilkinson 1928b : 262.

Genus **Microplitis** Förster

pallidipes Szépligeti 1902 : 64.

Host : *Spodoptera litura* (Fab.) [26].

tuberculifer (Wesmael) 1837 : 43 (*Microgaster*).

Host : *Spodoptera litura* (Fab.) [26].

Genus **Microgaster** Latreille

kuchingensis Wilkinson 1927 : 176.

Genus **Protomicroplitis** Ashmead

tomentosae (Wilkinson) 1930 : 282 (*Microgaster*).

Genus **Snellenius** Westwood

manilae (Ashmead) 1904b : 20 (*Microplitis*).

Hosts : *Spodoptera exigua* (Hbn.) (New host recorded in Taiwan), *S. litura* (Fab.) [26].

radicalis (Wilkinson) 1929 : 206 (*Microplitis*).

This species is new to Taiwan

Specimens examined : Taichung : Wufeng, 1♀, 15-19. VI. 1979, 2♂, 7-11. VII. 1979, & 3♂, VI. 1979 (Malaise trap).

Subfamily BLACINAE

Genus **Stantonia** Ashmead

issikii Watanabe 1932b : 187.

sauteri Watanabe 1932b : 188.

Subfamily EUPHORINAE

Genus **Aridelus** Marshall

rutillipes Papp 1965 : 187.

Genus **Dinocampus** Förster

coccinellae (Schrank) 1802 : 310 (*Ichneumon*) ; *Bracon terminatus* Nees von Esenbeck 1812 : 26 ; *Euphorus sculptus* Cressson 1872 : 227 ; *Centistes americana* Riley 1888.

Hosts : *Coccinella octopunctaca* Fab., *C. repanda* Thun., *C. septemunctata* L., *Coelophora biplagiata* Swartz, *Leis dimidiata* Fab., *Menochilus sexmaculatus* Fab., *Verania discolor* Fab. [98].

Genus **Meteorus** Haliday

narangae Sonan 1943 : 223.

Host : *Naranga aenescens* Moore [101].

sp. Chiu & Chou 1976 : 232.

Host : *Spodoptera litura* Fab. [26].

sp. Chiu, Chou & Wu 1978 : 62.

Host : *Anophia leucomelas* L. [27].

Genus **Myiocephalus Marshall**

boops (Wesmael) 1835 : 59 (*Microctonus*) ; *Gamosecus laticeps* Provancher 1886 : 126 ; *Aphidius hedini* Fahringer 1929 : 2.

Genus **Syntretomorpha** Papp

szaboi Papp 1962 : 18.

Host-parasitoid index

Achroia grisella (Pyralidae)
- *Apanteles galleriae*

Adoxophyes privatana (Tortricidae)
- *Bracon adoxophyesi*

Agrius convolvuli (Sphingidae)
- *Apanteles* sp.

Amsacta lactinea (Arctiidae)
- *Apanteles* sp.

Anophia leucomelas (Noctuidae)
- *Meteorus* sp.

Argyroploce schistaceana (Tortricidae)
- *Apanteles flavipes*
- *Microchelonus pectinophorae*

Asota complana (Arctiidae)
- *Apanteles asotae*

Batocera lineolata (Ceramycidae)
- *Euurobracon yokahamae*

Bedellia ferenodes (Lyonetiidae)
- *Apanteles* sp.

Brachmia macroscopa (Gelechiidae)
- *Apanteles* sp.
- *Chelonus* sp.
- *Macrocentrus* sp.

Bradysia tritici (Sciaridae)
- *Alysia* sp.
- *Asobara* sp.
- *Aspilota* sp.
- *Synaldis* sp.

Chilo infuscatellus (Pyralidae)
- *Apanteles flavipes*
- *Bracon chinensis*
- *Stenobracon nicevillei*
- *Macrocentrus jacobsoni*

C. suppressalis
- *Apanteles flavipes*
- *Bracon chinensis*
- *Stenobracon nicevillei*

C. venosatus
- *Apanteles flavipes*
- *Bracon chinensis*
- *Macrocentrus jacobsoni*
- *Stenobracon nicevillei*

Chalcosia argentata (Pyromorphidae)
- *Apanteles sonani*

Chlorophorus annularis (Cerambycidae)
- *Zombrus bicolor*

Cnaphalocrocis medinalis (Pyralidae)
- *Apanteles cypris*
- *Cardiochiles laevifossa*

Coccinella octopunctata (Coccinellidae)
- *Dinocampus coccinellae*

C. repanda

Dinocampus coccinellae
C. septempunctata
Dinocampus coccinellae
Coelophora biplagiata (Coccinellidae)
Dinocampus coccinellae
Corcyra cephalonica (Pyralidae)
Apanteles plutellae
Bracon hebetor
Cydia leucostoma (Tortricidae)
Apanteles aristaeus
Dacus cucurbitae (Tephritidae)
Opius fletcheri
D. dorsalis
Biosteres longicaudatus
B. oophilus
B. vandenboschi
Diachasma arisanum
Opius makii
D. latifrons
Diachasma arisanum
D. nubilus
Opius fletcheri
D. synnephes
Biosteres longicaudatus
Dendrolimus punctatus (Lasiocampidae)
Aleiodes dendrolimi
Diaphania indica (Pyralidae)
Apanteles taragamae
Phanerotoma planifrons
D. pyloalis
Apanteles minor
Macrocentrus philippinensis
Phanerotoma planifrons
Dicladispa armigera (Chrysomelidae)
Bracon hispae
Ephestia cautella (Pyralidae)
Apanteles plutellae
Bracon hebetor
Euproctis pseudoconspersa (Liparidae)
Apanteles lacteicolor
E. taiwana
Apanteles liparidis
A. taiwanensis
Galleria mellonella (Pyralidae)
Apanteles galleriae
Gracilaria theivora (Gracilariidae)
Apanteles theivorae
Histia rhodope (Pyromorphidae)
Apanteles heterusiae
A. lamborni
Homona coffearia (Tortricidae)
Apanteles heichinensis
A. hyposidrae
A. theae
Hymenia recurvalis (Pyralidae)
Apanteles mamitus
Leis dimidiata (Coccinellidae)
Dinocampus coccinellae
Leucania loreyi (Noctuidae)
Apanteles flavipes
Chelonus formosanus
Locastra muscosalis (Pyralidae)
Phanerotoma flava
Menochilus sexmaculatus (Coccinellidae)
Dinocampus coccinellae
Naranga aenescens (Noctuidae)
Apanteles kariyai
A. ruficrus
Meteorus narangae
Rogas narangae
Ochyrotica concursa (Pterophoridae)
Apanteles bisulcata
Orgyia postica (Liparidae)
Apanteles liparidis
Parasa consocia (Limacodidae)
Spinaria armator
Parnara guttata guttata (Hesperiidae)
Apanteles baoris
Perina nuda (Liparidae)
Cystomastax perinae
Plutella xylostella (Plutellidae)
Apanteles plutellae
Pterophorus niveodactylus (Pterophoridae)
Apanteles bisulcata
Apanteles spp.
Schoenobius bipunctifer (Pyralidae)
Apanteles flavipes
Bracon chinensis
Stenobracon nicevillei
Tropobracon schoenobii
Scirpophaga nivella (Pyralidae)
Macrocentrus jacobsoni

Stenobracon nicevillei
Tropobracon yokohamensis
Sesamia inferens (Noctuidae)
Apanteles flavipes
Bracon chinensis
Tropobracon schoenobii
Spodoptera exigua (Noctuidae)
Apanteles ruficrus
Chelonus formosanus
Snellenius manilae
S. litura
Apanteles plutellae
A. ruficrus
Chelonus formosanus
Meteorus sp.
Microplitis pallidipes
M. tuberculifer
Snellenius manilae
Stauropus alternus (Notodontidae)
Apanteles taprobanae
Sylepta derogata (Pyralidae)
Phanerotoma planifrons
Tinea pellionella (Tineidae)
Apanteles carpatus
Trichoplusia ni (Noctuidae)
Apanteles sp.
A. hemitheae
A. ruficrus
Verania discolor (Coccinellidae)
Dinocampus coccinellae

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摘 要

本名錄包括臺灣產小繭蜂科（Braconidae）計 14 亞科，66 屬，140 種，其中 *Agathis festiva* Muesebeck, *Apanteles hemitheae* Wilkinson, *A. hyposidrae* Wilkinson 及 *Snellenius radicalis*（Wilkinson）爲臺灣新記錄。*Chelonus formosanus* Sonan 與 *Snellenius manilae*（Ashmead）爲本省白一紋字夜蛾（*Spodoptera exigua* (Hbn.)）新記錄之寄生蜂；*Apanteles hemitheae* Wilkinson 與 *A. hyposidrae* Wilkinson 分別爲甘藍擬尺蠖（*Trichoplusia ni* (Hbn.)）與茶捲葉蛾（*Homona coffearia* Niet.）新記錄之寄生蜂。文末並附寄主—寄生蜂索引。

1. 臺灣省農業試驗所 研究報告 第976號。

2. 本所應用動物系技士。臺灣省 臺中縣 霧峰鄉。